SDAK24

SCHOOL OF DEVELOPMENT AND ACADEMIC KNOWLEDGE

Bcom 1st Year Business Statistics Formula Notes

Posted on April 1, 2018 | by SachinDaksh | Posted in B.com, B.com 1st year, Business Statistics Notes — 5 Comments ↓

Bcom 1st Year Business Statistics Formula Notes

Bcom 1st Year Business Statistics Formula Notes :- In this article we are share to Bcom's Subject Business Statistics formula. i hope it is very helpful for you.

Formula

Date
Page

समान्तर माध्य (MEAN)

(1) Individual Series *

(Direct method)

$$\text{mean}(\bar{x}) = \frac{\Sigma x}{N}$$

(Assume METHOD) कल्पित माध्य

$$\bar{x} = A + \frac{\Sigma dx}{N}$$

(2) Discreate Series *

$$\bar{x} = \frac{\Sigma fx}{N}$$

$$\bar{x} = A + \frac{\Sigma fdx}{N}$$

(3) Continuous Series *

$$\bar{x} = \frac{\Sigma fx}{N}$$

$$\bar{x} = A + \frac{\Sigma fdx}{N}$$

LATEST NEWS

BUSINESS ECONOMICS ONE DAY PATTERN NOTES

Categories

- 2015
- 2016
- 2017
- all
- All gov. jobs

मध्यका (median)

(1) Individual series *

m = Size of $\frac{N+1}{2}$ th items

if Answer is Recived in decimal number ex:- 5.5, 6.5

$$m = \frac{5^{th} \text{ Item} + 6^{th} \text{ Item}}{2}$$

or

m = (6^{th} Items − 5 Items) × 0.5

NOTE :- series is doing in Assending order

(2) Descrete series *

M = Size of $\frac{N+1}{2}$ Items

NOTE :- (1) before c.f. compulsory
(2) series convert in Assending order

Date
Page

(3) Continous Series *

m = series of $\frac{N}{2}$ Items

$$m = l_1 + \frac{l_2 - l_1}{f}(m - c)$$

OR

$$l_1 + \frac{i}{f}(m - c)$$

OR

$$l_1 + \frac{i}{f}\left(\frac{n}{2} - c\right)$$

NOTE: Before c.f. compulsory.

Date
Page

बहुलक (Mode)

① Individual series *

⇒ series में जिस frequency (बारम्बारता) का Repetation सबसे अधिक होता है उसी में mode होता है।

② Discrete series *

⇒ series में दी गई frequency में जो frequency सबसे बड़ी होगी उसके सामने की x की value mode कहलाती है।

⇒ निरीक्षण विधि (Supervisive method)

x	5	6	7	8	9	10
F	6	7	17	5	14	15

$Z = 17$

⇒ समूहन विधि (Grouping method)

$Z = 3m - 2\bar{x}$

Date
Page

(3) continuous series

⇒ Simple

$$Z = L_1 + \frac{f_1 - f_0}{2f_1 - f_0 - f_2}(L_2 - L_1)$$

Alternate formula

$$Z = L_1 + \frac{f_2}{f_0 + f_2}(L_2 - L_1)$$

Date
Page

* Geometric Means *

⇒ Individual series

$$G.M. = \sqrt[n]{x_1 \times x_2 \times x_3 \times x_4 \cdots x_n}$$

G.M. = Geometric Mean

N = Number of Items

x_1, x_2, x_3, x_4 ——— etc. for value of Items

$$G.M. = \text{Antilog}\left(\frac{\Sigma \log x}{N}\right)$$

Weighted Geometric Means

* Weighted Geometric means

$$W.G.M. = \text{Antilog}\left(\frac{\Sigma \log x \times 100}{\Sigma W}\right)$$

Harmonic Means

$$= \text{Reciprocal}\left(\frac{\Sigma \text{ Reciprocal of } x}{N}\right)$$

c) Discrete series & continous series

$$GM = \text{Antilog}\left(\frac{\Sigma \log x \times f}{N}\right)$$

$$\text{Harmonic Mean} = \text{Reciprocal}\left[\frac{\Sigma \text{ Reciprocal } x \times f}{N}\right]$$

$$WHM \Rightarrow \text{Reciprocal of}\left[\frac{\Sigma \text{ Reciprocal} \times w}{\Sigma w}\right]$$

Individual series

Quartile (चतुर्थक)

Q_1 = Size of $\frac{1(n+1)}{4}$ th Items

Q_3 = Size of $\frac{3(n+1)}{4}$ th Items

Decile (दशमक) D_7 = Size of $\frac{7(n+1)}{10}$ th Items

Percentile (शतमक)

P_{80} = Size of $\frac{80(n+1)}{100}$ th Items

Note: Series Arrange in Assending order

if Ans. in percent %

Ex: 8.75, 11.25

8th Items + ((9th − 8th) Items) × 0.75

11th Items + (12th − 11th) × 0.25

Discrete Serie

Q_1 = Size of $\frac{1(n+1)}{4}$ th Items

Q_3 = Size of $\frac{3(n+1)}{4}$

D_7 = Size of $\frac{7(n+1)}{10}$ th Items

P_{80} = Size of $\frac{80(n+1)}{100}$ th Items

Note: Always Cf is made?

Continuous Series

q_1 = Size of $\frac{1(n+1)}{4}$ th Items

$Q_1 = L_1 + \frac{L_2 - L_1}{f}(q_1 - C)$

q_3 = Size of $\frac{3(n)}{4}$ th Items

$Q_3 = L_1 + \frac{L_2 - L_1}{f}(q_3 - C)$

Date

Page

D_7 = Size of $\frac{7(n)}{10}$ th items

$D_7 = l_1 + \frac{l_2 - l_1}{f}(D_7 - c)$

P_{80} = Size of $\frac{80(n)}{100}$ th items

$P_{80} = l_1 + \frac{l_2 - l_1}{f}(P_{80} - c)$

Note! C.f is compulsory.

Date
Page

Range (विस्तार)

Range = Large value − Small value
$L - S$

Inter Quartile Range = $Q_3 - Q_1$

Co-efficient of Range = $\frac{L - S}{L + S}$

Percentile Range
$P_{90} - P_{10}$

Quartile Deviation = $\frac{Q_3 - Q_1}{2}$

Co-efficient of Quartile Deviation
(Co-eff. of Q.D) ⇒ $\frac{Q_3 - Q_1}{Q_3 + Q_1}$

Formula

Mean deviation

$$\delta_{\bar{x}} = \frac{\Sigma|x-\bar{x}|}{N} \text{ or } \frac{\Sigma|d\bar{x}|}{N}$$

$$\delta_m = \frac{\Sigma|x-m|}{N} \text{ or } \frac{\Sigma|dm|}{N}$$

$$\delta_z = \frac{\Sigma|x-z|}{N} \text{ or } \frac{\Sigma|dz|}{N}$$

Formula

Date
Page

Standard deviation
(प्रमाप विचलन) (σ)

Individual series

1. Direct method (प्रत्यक्ष रीति)

$$SD(\sigma) = \sqrt{\frac{\Sigma d^2x}{N}}$$

2. Short cut Method + लघुरीति (अप्रत्यक्ष रीति)

$$SD(\sigma) = \sqrt{\frac{\Sigma d^2x}{N} - \left(\frac{\Sigma dx}{N}\right)^2}$$

3. By original data - (value square method)

$$\sigma = \sqrt{\frac{\Sigma x^2}{N} - (\bar{x})^2} \text{ or } \sqrt{\frac{\Sigma x^2}{N} - \left(\frac{\Sigma x}{N}\right)^2}$$

Co-eff. of SD $= \frac{\sigma}{\bar{X}}$

Co. eff. of variance $= \frac{\sigma}{\bar{X}} \times 100$

variance $= \sigma^2$

$\sigma = \sqrt{\text{variance}}$

Date
Page

Discrete & continuous series

$$SD(\sigma) = \sqrt{\frac{\Sigma f d^2 x}{N}}$$

Direct method

$$SD(\sigma) = \sqrt{\frac{\Sigma f d^2 x}{N} - \left(\frac{\Sigma f d x}{N}\right)^2}$$

Square method

$$\sigma = \sqrt{\frac{\Sigma x^2 f}{N} - (\bar{x})^2} \text{ or } \sqrt{\frac{\Sigma x^2 f}{N} - \left(\frac{\Sigma f x}{N}\right)^2}$$

विषमता

Karl Person's Masure of Skeness

$$S_K = \bar{X} - Z \text{ or } S_K = 3(\bar{X} - M)$$

Karl Per's co. eff of Skeness

$$J = \frac{\bar{X} - Z}{\sigma} \text{ OR } J = \frac{3(\bar{X} - M)}{\sigma}$$

Bowly's measure of Skeness

$$SQ = Q_3 - Q_1 - 2M$$

Bowley's co. eff. Skeness

$$JQ = \frac{Q_3 - Q_1 - 2M}{Q_3 + Q_1}$$

B Com Study Material in Hindi

B Com Question Paper in Hindi and English

Follow Us on Social Platforms to get Updated : ***twiter,*** *facebook, Google Plus*

‹ Negotiation and Assignment Business Law Notes in Hindi

Bcom Business Communication Question Paper 2018-19 ›

Tagged with: Bcom 1st Year Business Statistics Formula Notes, Bcom business statistics formulas

Edit

5 comments on "Bcom 1st Year Business Statistics Formula Notes"

sas undirwade says:
August 12, 2018 at 4:56 pm (Edit)

Plz send me b. Com 1st year stastics full note plz

Reply

Lovneet tyagi says:
August 22, 2018 at 4:22 am (Edit)

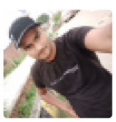
Very nice one formula in statistics so grateful thank you I reminder so thankful thank you

Reply

Gopal says:
September 10, 2018 at 12:50 pm (Edit)

plz send me b.com Istyear statics full note

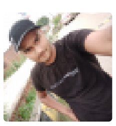
Reply



SachinDaksh says:
September 22, 2018 at 2:54 am (Edit)

Statics Ke keval itna hi h

Reply



SachinDaksh says:
September 24, 2018 at 12:22 pm (Edit)

Bcom first year ke full notes website pr hi pade h

Reply

Leave a Reply

Logged in as SachinDaksh. Log out?

Comment

Post Comment

Learn Income Tax

Recent Posts

- B.com 1st, 2nd, 3rd Year Notes and Question Paper
- B.com 1st 2nd 3rd Year Notes and Books Free PDF Download
- Residential Status Income Tax Notes
- B Com 2nd Year Principles of Business Management 2015
- B Com 2nd Year Principles of Business Management 2017
- B Com 2nd Year Principles of Business Management
- Bcom Principle of Marketing Previous Year Paper 2017
- Syllabus Bsc 1st 2nd 3rd Year all Semester
- B Com 2nd Year Fundamental of Entrepreneurship Question Paper
- B Com 2nd Year Fundamental of Entrepreneurship Question Paper 2016
- B Com 2nd Year Fundamental of Entrepreneurship Question Paper 2017
- Syllabus Bcom 1st 2nd 3rd Year all Semester
- B Com 2nd Year Public Finance Question Paper 2015
- B Com 2nd Year Cost Accounting Numerical Question
- B com 2nd Year Public Finance Question Paper 2016
- Bcom 2nd Year Definition of Tax Planning Hindi Notes
- B Com 2nd Year Public Finance Question Paper 2017
- B Com 2nd Year Corporate Low Question Paper 2017
- B com 2nd Year Corporate Low Question Paper 2016
- B Com 2nd Year Corporate Low Question Paper 2015
- B Com 2nd Year Agriculture Income Tax Define Notes
- B Com 2nd Year Income Tax Notes in Hindi
- Bcom Cost Accounting Theory Notes One Day Pattern
- B Com 2nd Year Fundamentals of Entrepreneurship Notes

- Download free NCERT Book for CBSE and Hinglish Medium Class 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th
- Bcom Financial Accounting Question Paper 2018-19
- Bcom Business Statistics Question Paper 2018-19
- Bcom Business Economics Question Paper 2018-19
- Bcom Business Regulatory Framework Question Paper 2018-19
- Memorandum and Articles of Association Corporate law Notes hindi
- Bcom Business Environment Question Paper 2018-19
- Corporate Laws Notes Syllabus Bcom Study Material
- Formation of a Company Corporate Law notes Hindi
- Meaning and Definition of Company Promoter Corporate Law Bcom Part 2
- Private Company Corporate law Notes Bcom part 2
- Classification or Kinds of Company Corporate law Bcom part 2
- Company An Introduction Corporate law Bcom part 2
- Sachin Daksh
- Bcom Qualifying Course Sports and Physical Education Question Paper 2018
- NIELIT CCC Question Answer Practice Test Paper 02
- Bcom Business Communication Question Paper 2018-19
- Bcom 1st Year Business Statistics Formula Notes
- Negotiation and Assignment Business Law Notes in Hindi
- Crossing of Cheques and its Types Business Law Notes Hindi
- Holder and Holder in Due Course Business Law Notes Hindi
- Promissory notes and bills of exchange Business Law Notes Hindi
- Protected: My Family
- Cheque an Introduction Business Law Notes in Hindi
- NIELIT CCC Question Answer Practice Test Paper 01
- Negotiable Instruments According to Section 13 (1) of 1881 Business Law Notes
- Sale of Goods Act 1930 Business Law Notes in Hindi
- Contracts of Agency Business Law Notes in Hindi
- Modern Forms of Communication Notes in Hindi
- Contract of Bailment and Pledge Business Law Notes
- Implied Or Quasi Contracts Bcom Business Law Notes
- Contingent Contract Bcom 1st Year Business Law Notes
- Lawful Consideration And Object Bcom Business Law Notes
- Bcom Question Paper 2nd Year With Answers
- Free Consent of the Parties Bcom Business Law Notes
- Parties Competent to Contract Bcom Business Law
- Proposal and Acceptance Communication and Revocation Business Law Notes
- Indian Contract Act 1872 Bcom Business Law
- Business Law An Introduction Bcom study Materials
- Nikhil Daksh
- Sagar Daksh
- Sachin Daksh
- Bcom 3rd Year Financial Management Previous Year Question Paper 2017
- Bcom 3rd Year Information Technology Previous Year Question Paper 2017
- Bcom 3rd Year Money and Financial System Previous Year Question Paper 2017
- Bcom 3rd Year Auditing Previous Year Question Paper 2017
- Bcom 3rd Year Corporate Accounting Previous Year Question Paper 2017
- How to Improve Interviewing Skills and Types Meaning Characteristics
- How Many Type of Business Letters in Hindi
- Writing Skills and Drafting Business Communication Notes
- Most Important Question Financial Accounting B com Ccs University
- Mean and Type Non Verbal Communication Body Language
- Most Important Question Business Regulatory B com Ccs University
- 41520 Vacancy up Police Constable 2018 Latest News
- Business Communication CCS University Important Question B com
- Mis Communication Barriers And Breakdown and Improvements in Hindi
- Bcom Business Economics Notes In Hindi One Day Pattern
- GK of All Word in Hindi
- world Bank Organization Short Question Business Environment B com Note
- Foreign Investment Regulation Meaning Foreign Capital Difference between FERA and FEMA
- New Export Import Policy of India B com Study Materials Environment
- Corporate Formal Informal Communication And Grapevine
- Characterization Purpose Privatization Business Environment study Notes
- Major Elements Current Industrial Licensing Policy B com notes
- Balance of Trade and Balance of Payments study notes in Hindi
- Basic Form of Communication Notes In English
- Business Environment Notes Concept Components And Importance

- Parallel Economy Meaning of Black Money Government Effects Stop Black Money
- Industrial Growth in India b com 1st Year Notes in Hindi
- Business Environment Notes in Hindi Meaning Industrial Policy India Characteristics
- Business Communication An Introduction In English
- Due to Unemployment In India Business Environment Notes In Hindi
- Business Environment Study Material Infection Meaning Savings and Investments
- Business Environment Study Material Due Poverty in India Meaning of Poverty
- Self Development And Communication Business Communication Notes In Hindi
- Meaning Of Industrial Sickness Reason Business Environment Study Material